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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/351,862	07/12/1999	PHILIP E. THORPE	4001.002282	1339
75	90 10/22/2002			
SHELLEY P M FUSSEY WILLIAMS MORGAN AND AMERSON PC 7676 HILLMONT SUITE 250			EXAMINER	
			SHARAREH,	SHAHNAM J
HOUSTON, TX 77040			ART UNIT	PAPER NUMBER
			1617	
			DATE MAILED: 10/22/2002	27

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Offic Action Summary	09/351,862	THORPE ET AL.
Summary	Examiner	Art Unit
The MAII ING DATE of this	Shahnam Sharareh	1
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wit	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail - Example 2 and 1571. - Status	1.136(a). In no event, however, may a re- eply within the statutory minimum of thirty of will apply and will expire SIX (6) MONT ute, cause the application to become ABA ling date of this communication, even if tin	ply be timely filed (30) days will be considered timely
1) Responsive to communication(s) filed on 20) June 2002 .	•
2a)区 This action is FINAL . 2b) T	his action is non-final	
closed in accordance with the practice under Disposition of Claims	vance except for formal matte r Ex parte Quayle, 1935 C.D.	ers, prosecution as to the merits is 11, 453 O.G. 213.
4) Claim(s) <u>1-30 and 34-43</u> is/are pending in the	e application.	
4a) Of the above claim(s) <u>2,13,15-18,</u> 30 and 3	86-38 is/are withdrawn from a	Ongidoration
is/are allowed.		unsideration.
6) Claim(s) <u>1,3-12,16,19-29,34,35 and 39-43</u> is/a	are rejected	
(s)is/are objected to.		1
8) Claim(s) <u>2,13,15-18,30 and 36-38</u> are subject pplication Papers	to restriction and/or election r	requirement.
9) The specification is objected to by the Examine	r	
10) ☐ The drawing(s) filed on is/are: a) ☐ accept	nted or h) = till to the	_
S seriodadii ilica Oli	IS all Langroyed by Tair-	e. See 37 CFR 1.85(a).
If approved, corrected drawings are required in rep	ly to this Office action	oproved by the Examiner.
The bath of declaration is objected to by the Exa	aminer.	
iority under 35 U.S.C. §§ 119 and 120		
13) Acknowledgment is made of a claim for foreign	Driority under 35 U.S.O. S	
YELL SOUND CITE OF		9(a)-(d) or (f).
1. Certified copies of the priority documents	have been received	
2. L. Certified copies of the priority documents	have been received in Annua	
- The state of the control of the property	ve all = =	ation No
of the attached detailed Office action for a list of	the comistant	
and a made of a claim for domestic r	priority under 25 H C C	
a) ☐ The translation of the foreign language provis 5)☐ Acknowledgment is made of a claim for domestic	sional application has been re	eceived
5) Acknowledgment is made of a claim for domestic parties;	priority under 35 U.S.C. §§ 12	20 and/or 121.
Notice of References Cited (RTO, 200)		•]
Information Disclosure Statement(s) (PTO-1449) Paper No(s) 21 2.	4) Interview Summa 5) Notice of Informal 4-2 6) Other:	rry (PTO-413) Paper No(s) I Patent Application (PTO-152)
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DETAILED ACTION

Amendment filed on June 20, 2002 has been entered. Claims 1-30, 34-43 are pending.

Claims 2, 13, 15-18, 30, 36-38 are withdrawn from further consideration, as being drawn to a nonelected species. Applicant timely traversed the restriction (election) requirement in Paper No. 14. Claims 1-30, 34-43 are pending, however, claims 1, 3-12, 14, 19-29, 34-35, 39-42 are under consideration at this time.

This application contains claim 2, 13, 15-18, 30, 36-38 drawn to an invention nonelected with traverse in Paper No. 14. A complete reply to the final rejection must include cancellation of nonelected claims or other appropriate action (37 CFR 1.144). See MPEP 821.01.

Response to Amendment

Any rejection that is not addressed in this Office Action is considered obviated in view of the Amendments and Arguments.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1, 3-12, 14, 19-22, 39-43 stand rejected under 35 U.S.C. 102(e) as being anticipated by Schroit US Patent 6,300,308.

Applicant's arguments with respect to this rejection have been fully considered but they are not persuasive.

The instant claims are directed to kits containing at least a first aminophospholipid antibody or antigen-binding fragment thereof in combination with an

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detectably-labeled antibody or antigen-binding fragment thereof directed to aminophospholipid or anticancer agent. This claim is not limited to two distinct antibodies directed to aminophospholipids. The instant second anticancer agent encompasses any anticancer agent.

Applicant argues that the present kits are not directed to phosphatidylserinepolypeptide conjugates (Amendment at page 9). However, such conjugates are within the scope of an anticancer agent (see Schroit, claim 21).

Applicant also asserts that the Action's reference to antibody directed to "aminophospholipid receptors" is not understood. Examiner points out that Schroit teaches PS specific antibodies that can be conjugated with a polypeptide. Since, PS is an aminophospholipid, Schroit's antibodies are directed to aminophospholipid receptors.

Applicant asserts that Schroit teaches immunodetection reagents alone and there is no reference to any therapeutic agent. Examiner disagrees with Applicant's interpretation of Schroit. Col 7, line 67- col 8, line 1, states "In such cases, one or more containers would contain each of the PS composition(s)..." Therefore, Schroit's discloses kits that can contain containers with a second anti-aminophospholipid antibody conjugate. Further, Schroit claims an antibody-therapeutic construct (see claim 21). Moreover, Schroit's antibody can exist in "separate moieties to be conjugated by user of the kit" (see col 6, lines 50-51). Thus, Schroit teaches PS antibody compositions are not only naked, but also can be used in combination with a therapeutic agent.

Applicant also argues that diphtheria toxoid of Schroit is a carrier for lipid immunization. In response, Examiner states that regardless of the intended use,

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diphtheria toxoid of Schroit provides therapeutic activity within the scope of the instant claims. Accordingly, Schroit anticipates the limitations of the instant claims.

Claims 1, 3-12, 14, 19-29, 34-35, 39-43 stand rejected under 35 U.S.C. 103(a) as being unpatentable over Schroit US Patent 6,300,308 in view of Gimbrone US Patent 5,632,991 and Umeda (IDS, 9/19/1999).

Applicant's arguments with respect to this rejection have been fully considered but they are not persuasive.

The instant claims are directed to kits containing at least a first aminophospholipid antibody or antigen-binding fragment thereof in combination with an detectably-labeled antibody or antigen-binding fragment thereof directed to aminophospholipid or anticancer agent. The instant second anticancer agent encompasses any anticancer agent.

In response to applicant's arguments against the references individually, one cannot show nonobviousness by attacking references individually where the rejections are based on combinations of references. See *In re Keller*, 642 F.2d 413, 208 USPQ 871 (CCPA 1981); *In re Merck & Co.*, 800 F.2d 1091, 231 USPQ 375 (Fed. Cir. 1986). In the instant case, the combined teachings of the cited references renders the limitations of the present claims obvious.

First, as argued above, Examiner states in col 7, line 65-col 8, line 1 Schroit sets forth that multiple PS antibody compositions can be used in Schroit's kit. Therefore, Schroit's suggests kits that can contain containers with a second anti-aminophospholipid antibody conjugate. Further, applicant's assertion that the present

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kits are not phophatidylserine-polypeptide conjugates are not persuasive, because the instant therapeutic constructs within the kits do not exclude such constructs as taught by Schroit.

In addition, Gimbrone and Umeda supplement the teachings of Schroit to further provide for a second anticancer agent or therapeutic agent. Therefore, all the limitations of the instant claims are taught.

Finally, the rejection is based on the combination of the teachings set forth in the cited references. Each reference is directed to specific receptor molecule on the surface of human vascular endothelial cells associated with vascularized tumor. Thus, they are viewed to be in the same field of endeavor and are considered combinable. Moreover, the compositions of Schroit, Gimbrone and Umeda are used for the same purpose.

Accordingly, combining the compositions taught by each reference in order to form third composition that is to be used for very same purpose is *prima facia* obvious. see *In re Kerkhoven*, 205 USPQ 1069(CCPA) 1980. Therefore, claims stand rejected.

Conclusion

No claims are allowed.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shahnam Sharareh whose telephone number is 703-306-5400. The examiner can normally be reached on 8:30 am - 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreenivasan Padmanabhan, PhD can be reached on 703-308-1877. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1123.

ss October 20, 2002



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